

ABSTRACT

BROADBAND CELLULAR NETWORK DEVICE

A broadband cellular network device comprises a base station controller unit (1), an asynchronous transfer mode controller (2) adapted to control the distribution of cellular traffic consisting of asynchronous transfer mode cells in trunking mobile communication networks based on ATM technology, and an asynchronous transfer mode switching means (3) controlled by said asynchronous transfer mode controller (2). The base station controller unit (1), the asynchronous transfer mode controller (2) and the asynchronous transfer mode switching means (3) form an ATM based base station controller (BSC) capable of performing ATM switching and adapted to replace PCM based base station controllers in base station subsystems (BSS) of asynchronous transfer mode based cellular networks.

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